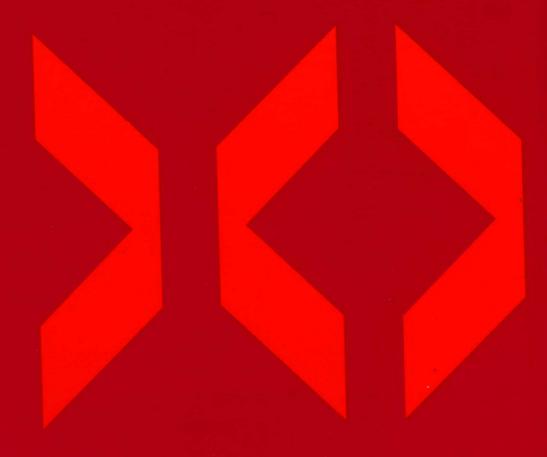
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MVS/Extended Architecture Data Facility Product Version 2: Master Index

Licensed Program



IBM

MVS/Extended Architecture
Data Facility Product Version 2:
Master Index

Licensed Program

Third Edition (June 1987)

This is a major revision of, and makes obsolete, GC26-4146-1.

This edition applies to Version 2 Release 3.0 of MVS/ExtendedArchitecture Data Facility Product, Licensed Program 5665-XA2, and to any subsequent releases until otherwise indicated in new editions or technical newsletters.

The changes for this edition are summarized under "Summary of Changes" following the preface. Specific changes are indicated by a vertical bar to the left of the change. These bars will be deleted at any subsequent publication of the page affected. Editorial changes that have no technical significance are not noted.

Changes are made periodically to this publication; before using this publication in connection with the operation of IBM systems, consult the latest \underline{IBM} System/370, $30\times x$, and 4300 Processors Bibliography, GC20-0001, for the editions that are applicable and current.

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SUMMARY OF CHANGES

RELEASE 3.0, JUNE 1987

<u>Interactive Storage Management Facility Customization Guide, GC26-4267</u>, has been deleted from this book. It is no longer being updated.

A new manual, MVS/Extended Architecture Data Facility Product <u>Version 2: Customization</u>, GC26-4267, replaces it.

RELEASE 2.0, JUNE 1986

The Introduction and the Index have been updated to reflect updates in the individual MVS/Extended Architecture (MVS/XA) Data Facility Product publications covered in this manual.

In addition, for greater ease of use, editorial changes have been made to index entries in the Index.

For a summary of the changes to individual manuals, see "Updates to MVS/XA Publications for Version 2 Release 2.0" on page 14.

RELEASE 1.0, APRIL 1985

The Introduction and the Index have been updated to reflect new order numbers and index entries in the MVS/Extended Architecture (MVS/XA) Data Facility Product publications.

For a summary of the changes, see "Updates to MVS/XA Publications for Version 2 Release 1.0" on page 17.

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INTRODUCTION

This manual, whose short title is <u>Master Index</u>, is provided to help you find information in the MVS/Extended Architecture (MVS/XA) Data Facility Product library. It lists index entries alphabetically and uses a **code** to name the manuals in which these entries are discussed. The indexes of the individual manuals provide you with exact page numbers.

If an index entry appears in more than one manual, the individual codes are listed with the appropriate subentry or subentries. For example, if information about "BPAM" can be found in several different manuals, the index entry might look like this:

BPAM (basic partitioned access method) GI, SYSG checkpoint considerations CPRT DCB parameters CPRT general description DAMI macro instructions used with DAMI

Master Index is actually a composite of the indexes of 17 individual manuals. To increase ease of use, however, editorial changes have been made to some index entries. Therefore, with minor exceptions, the index entries that you find in this manual are the same as those found in the individual component indexes.

An attempt was made to standardize the way index entries are presented. For example, primary index entries that include an acronym are presented as follows:

DFDSS (Data Facility Data Set Services)

VSAM (virtual storage access method)

For ease of use, however, the spelled out versions of acronyms are also included. These usually consists of "see" references that point you to the above primary entries (which may contain associated secondary and tertiary entries).

For example:

Data Facility Data Set Services See DFDSS

- or -

virtual storage access method See VSAM

In addition, an attempt was made to standardize the singular or plural forms of specific nouns in primary index entries.

Examples are:

commands data set macros parameter routine

PUBLICATIONS

This index refers to the following MVS/Extended Architecture (MVS/XA) manuals.

EVALUATION AND INFORMATION RETRIEVAL

 MVS/Extended Architecture Data Facility Product Version 2: General Information, GC26-4142

PLANNING

• MVS/Extended Architecture Data Facility Product Version 2: Planning Guide, GC26-4147

INSTALLATION

 MVS/Extended Architecture Installation: System Generation, GC26-4148

ADMINISTRATION

Program Management

- MVS/Extended Architecture Linkage Editor and Loader User's Guide, GC26-4143
- MVS/Extended Architecture Checkpoint/Restart User's Guide, GC26-4139

Device Management

 MVS/Extended Architecture Magnetic Tape Labels and File Structure Administration, GC26-4145

Data Management

- MVS/Extended Architecture Catalog Administration Guide, GC26-4138
- MVS/Extended Architecture Data Administration Guide, GC26-4140
- MVS/Extended Architecture Data Administration: Macro Instruction Reference, GC26-4141
- MVS/Extended Architecture Data Administration: Utilities, GC26-4150
- MVS/Extended Architecture Integrated Catalog Administration: Access Method Services Reference, GC26-4135
- MVS/Extended Architecture System-Data Administration, GC26-4149
- MVS/Extended Architecture VSAM Administration Guide, GC26-4151
- MVS/Extended Architecture VSAM Administration: Macro Instruction Reference, GC26-4152
- MVS/Extended Architecture VSAM Catalog Administration: Access Method Services Reference, GC26-4136

Storage Management

<u>Interactive Storage Management Facility User's Guide</u>, GC26-4266

Customization

MVS/Extended Architecture Data Facility Product Version 2: Customization, GC26-4267

ABBREVIATED CODES

For easy reference, the following is a list of manual titles and their abbreviated codes used in this index.

Code	Manual Manual
AMSI	Integrated Catalog Administration: Access Method Services Reference
AMSV	VSAM Catalog Administration: Access Method Services Reference
CAG	Catalog Administration Guide
CPRT	Checkpoint/Restart User's Guide
CUST	Data Facility Product Version 2: Customization
DAG	Data Administration Guide
DAMI	Data Administration: Macro Instruction Reference
GI	Data Facility Product Version 2: General Information
IUG	Interactive Storage Management Facility User's Guide
LEL	Linkage Editor and Loader User's Guide
PG	Data Facility Product Version 2: Planning Guide
SDA	System—Data Administration
SYSG	Installation: System Generation
TAPE	Magnetic Tape Labels and File Structure Administration
UTIL	Data Administration: Utilities
VAG	VSAM Administration Guide
VAMI	VSAM Administration: Macro Instruction Reference

UPDATES TO MVS/XA PUBLICATIONS FOR VERSION 2 RELEASE 3.0

The following table, listed in order of abbreviated code, shows publication changes and additions for Release $3.0\,$

Code—MVS/XA Publication	Changes/Additions for Release 3.0
AMSI—MVS/Extended Architecture Integrated Catalog Administration: Access Method Services Reference, GC26-4135	 This release supports creation and expiration dates of data sets through the year 2155. This support applies to integrated catalog facility catalogs only. Changes have been made to the parameter descriptions of all affected access method services commands. Examples of data sets with expiration dates beyond 1999 have been added to the information on the ALTER, DEFINE CLUSTER, and LISTCAT commands. A new catalog lock facility has been added to restrict catalog access during recovery operations to authorized recovery personnel only. New parameters have been added to the ALTER, DEFINE USERCATALOG MASTERCATALOG, and IMPORT commands. An example of how to lock a catalog on import has been added to the information on the IMPORT command. Linear data sets can now be defined in an integrated catalog facility catalog. Changes have been made to the descriptions of all affected access method services commands. New parameters have been added to the ALTER and DEFINE CLUSTER commands to support linear data sets. Examples illustrating linear data sets have been added to the ALTER, DEFINE CLUSTER, LISTCAT, and PRINT commands. Aliases of integrated catalog facility catalogs being exported will now be retrieved and written to the portable data set along with the catalog itself. A new parameter has been added to the IMPORT command to support the option of importing the exported aliases. Examples of exporting and importing integrated catalog facility catalogs have been changed to include exporting and importing and
AMSV—MVS/Extended Architecture VSAM Catalog Administration: Access Method Services Reference, GC26-4136	 Minor technical changes have been made.

Code—MVS/XA Publication	Changes/Additions for Release 3.0
CAG—MVS/Extended Architecture Catalog Administration Guide, GC26-4138	 Figure 15 in Chapter 2 has been updated to show the new fields for expiration century and creation century needed for data set expiration dates beyond 1999. "Protecting the Catalog" in Chapter 3 and various sections in Chapter 5, "Backing Up and Recovering Catalogs" have been updated to support enhanced integrated catalog facility recovery. Sections of Chapter 5, "Backing Up and Recovering Catalogs" have also been updated to reflect changes due to the new capability of automatically exporting aliases and being able to record information about exports of integrated catalog facility catalogs. Information has been added to reflect the new linear data set (LDS).
CPRT—MVS/Extended Architecture Checkpoint/Restart User's Guide, GC26-4139	 Most of the text from "Appendix B. End-of-Volume Checkpoint Routine" has been removed and placed in <u>Data</u> <u>Facility Product: Customization</u>.

Code—MVS/XA Publication	Changes/Additions for Release 3.0
CUST—MVS/Extended Architecture Data Facility Product Version 2: Customization, GC26-4267	• This manual was formerly entitled Interactive Storage Management Facility Customization Guide. • The content of the manual now encompasses all of Version 2 DFP customization facilities, including ISMF. The exits and replaceable modules documented in a number of DFP books have been consolidated into this manual. Customization information was extracted from the following manuals: Data Administration Guide

Code—MVS/XA Publication	Changes/Additions for Release 3.0
DAG—MVS/Extended Architecture Data Administration Guide, GC26-4140	 This release provides virtual storage constraint relief by allowing VSAM control blocks to be obtained above 16 megabytes. A new long form parameter list allows for 31-bit addresses. Changes have been made to Chapter 5, "Specifying a Data Control Block and Initializing Data Sets," to document the new long form parameter list. The default is the standard form parameter list with 24-bit addresses. A new DCB exit list code, X'13', has been added to RDJFCB to retrieve allocation information. Changes have been made to Chapter 7, "DCB Exit Routines," to document the new DCB exist list code. Detailed information on user exits has been moved from Chapter 7 to Data Facility Product: Customization.
DAMI—MVS/Extended Architecture Data Administration: Macro Instruction Reference, GC26-4141	 This release provides virtual storage constraint relief by allowing VSAM control blocks to be obtained above 16 megabytes. Changes have been made to each of the three forms of the OPEN and CLOSE macros to allow for a new long form parameter list. The new long form allows for 31-bit addresses. The default is the standard form parameter list with 24-bit addresses. A new DCB exit list code, X'13', has been added to RDJFCB to retrieve allocation information. Changes have been made to Appendix D, "DCB Exit List Format and Contents," to document the new exit list code. Minor technical changes have been made. In addition, documentation for the TYPE=J operand has been added to the descriptions of each of the three forms of the OPEN macro. Detailed information on exception codes and status indicators from Appendix A, "Status Information Following an Input/Output Operation," has been moved to Data Facility Product: Customization.
GI—MVS/Extended Architecture Data Facility Product Version 2: General Information, GC26-4142	 New sections have been added: Defining devices to MVS/XA Catalog backup and recovery The appendix contains a summary of the enhancements for each release of MVS/XA Data Facility Product Version 2.

Code—MVS/XA Publication	Changes/Additions for Release 3.0
IUG— <u>Interactive Storage Management</u> <u>Facility User's Guide</u> , GC26-4266	 A new feature added to ISMF that affects this manual is the volume application. Volume application provides a volume list on which you perform a number of storage management tasks. With the ISMF volume application, you can now: Construct, tailor, and manipulate the volume list. Monitor total allocated space on a volume. Reduce free space fragmentation on a volume with DFDSS. Use line operators also supported for data set applications such as COMPRESS, DUMP, COPY, RELEASE, and RESTORE. Invoke a TSO CLIST against a volume. Other features added to ISMF enable you to: Manipulate lists with the commands FILTER, CLEAR, and REFRESH. Display years with 4-digits (e.g., 1987). Delete a data set from a VTOC generated list.
LEL—MVS/Extended Architecture Linkage Editor and Loader User's Guide, GC26-4143	This manual has not been updated.
PG—MVS/Extended Architecture Data Facility Product Version 2: Planning Guide, GC26-4147	 Chapter 2 has been updated to reflect changes in the procedure for defining devices to MVS/XA. Chapter 3 has been updated for the volume application of the interactive storage management facility. Chapter 8 has been added. It includes a description of enhanced integrated catalog facility catalog recovery. Appendix B has been updated to reflect changes in VSAM to take advantage of extended architecture and to optimize the use of virtual storage. Several sections have been added to Chapter 4 to describe the following: Customization restructure of the library Storage Management Library (SML) Data Facility family of products Storage Subsystem Library (SSL)

Code—MVS/XA Publication	Changes/Additions for Release 3.0
SDA—MVS/Extended Architecture System-Data Administration, GC26-4149	 Data sets may now be retained beyond the year 1999 or be retained indefinitely (never-scratch). Information about the new LSPACE macro instruction has been added. The LSPACE macro also allows you to obtain VTOC status information. Open, close, and end-of-volume parameter lists may now reside at an address above 16 megabytes. The retrieval area for information extracted from a JFCB can now be allocated at an address above 16 megabytes. Information related to customizing the Data Facility Product for individual users has been moved to Data Facility Product: Customization, a new book.

Code—MVS/XA Publication	Changes/Additions for Release 3.0
SYSG—MYS/Extended Architecture Installation: System Generation, GC26-4148	• With the installation of MVS/SP Version 2 Release 2.0 and DFP/XA Version 2 Release 3.0, the following changes occur in the sysgen process: An I/O device generation—usually called IOGEM—is no longer supported. The function of an IOGEN is now provided by the MVS configuration program and various PARMLIB members. An eligible device table (EDT) generation—usually called an EDTGEN—is no longer supported. The function of an EDTGEN is now provided by the MVS configuration program. The following sysgen statements become obsolete: — AFFINITY — CKPTREST — CONSOLE — CTRLPROG — EDIT — EDTGEN — IODEVICE — SCHEDULR — SVCTABLE — TSO — UNITNAME The functions of the preceding statements are now provided by the MVS configuration program, various new/changed PARMLIB members, and SAMPLIB members. On the DATAMGT statement, the IND, TABLE, and UCSDFLT parameters are no longer supported. The specification for including/excluding MSS is added to the DATAMGT statement. The specification for including/excluding the full TSO command system is added to the DATAMGT statement. On the DATASET statement, SYS1.DCMLIB is no longer supported. On the GENERATE statement, SYS1.DCMLIB is no longer supported. None of the parameters on the JES statement are supported any longer. SYS1.LOGREC is no longer automatically defined during the sysgen process. SYS1.LOGREC must be preallocated or specified, using the DATASET macro with the SPACE parameter. All obsolete sysgen statements and nonsupported parameters are still included in this manual, with pointers to their functional replacements (if they exist).

Code—MVS/XA Publication	Changes/Additions for Release 3.0
TAPE— <u>MVS/Extended Architecture</u> <u>Magnetic Tape Labels and File</u> <u>Structure Administration</u> , GC26-4145	 Support for the years beyond 1999 has been added to ISO/ANSI/FIPS labels. Most of the text from Chapters 4 and 6, and Appendix D, has been removed and placed in <u>Data Facility Product: Customization</u>.
UTIL—MVS/Extended Architecture Data Administration: Utilities, GC26-4150	 Support for the years beyond 1999 has been added to the IEHLIST system utility. Most of the text from Appendices A and C has been removed and placed in Data Facility Product: Customization. The chapter on the IFHSTATR program has been completely replaced. Examples throughout the book have been corrected, where necessary, with respect to beginning the continued portion of job control and utility control statements in the correct columns. A formula has been added for calculating the region size needed when executing the IEBGENER program (in cases where you specify the number of buffers to be used rather than use the default number). A new IEBGENER example has been added to illustrate this.
VAG—MVS/Extended Architecture VSAM Administration Guide, GC26-4151	 Local shared resource (LSR) support allows separate resource pools for the data and index portions of a VSAM data set. The alternate index is synchronized with the base data set following errors. VSAM control blocks and buffers may be obtained above 16 megabytes to provide virtual storage constraint relief. Information describing the new linear data set has been added. The contents of Chapter 11, "User-Written Exit Routines", and Appendix G, "Datestamp Routine", have been moved to Data Facility Product: Customization.

Code—MVS/XA Publication	Changes/Additions for Release 3.0
VAMI—MVS/Extended Architecture VSAM Administration: Macro Instruction Reference, GC26-4152	 A new parameter, MODE=24 31, has been added to the BLDVRP, CLOSE, DLVRP, and OPEN macros. A new parameter, RMODE31=(ALL BUFF CB NONE), has been added to the ACB, BLDVRP, GENCB, and MODCB macros. This new parameter replaces the MACRF=AMODE31 subparameter in the ACB, GENCB-ACB, and MODCB-ACB macros and the LOC parameter in the BLDVRP and GENCB-RPL macros. A new specification, DATA INDEX, has been added to the TYPE parameter in the BLDVRP macro. A new option, LDS, has been added to the TESTCB-ACB macro. The parameter LOC=BELOW ANY has been added to the GENCB macro. The BLDVRP, CLOSE, DLVRP, and OPEN parameter lists, the ACB, and other control blocks and I/O buffers may now reside above or below 16 megabytes. New codes have been added to the logical error reason codes in the feedback field of the request parameter list. New codes have been added to the return codes from BLDVRP and some existing code descriptions have been changed. Some code descriptions have been changed in the open reason codes in the error field of the access method control block.

UPDATES TO MVS/XA PUBLICATIONS FOR VERSION 2 RELEASE 2.0

The following table, listed in order of abbreviated code, shows publication changes and additions for Release 2.0 $\,$

Code—MVS/XA Publication	Changes/Additions for Release 2.0
AMSI—MVS/Extended Architecture Integrated Catalog Administration: Access Method Services Reference, GC26-4135	 EXPORT and IMPORT control interval processing allows you to process entry-sequenced data set (ESDS) base cluster data records one control interval at a time. For VSAM data sets defined in an ICF catalog and for the ICF catalog itself, this release supports block sizes in multiples of 512 bytes—from 512 bytes to 8K bytes, and in multiples of 2K bytes—from 8K bytes to 32K bytes. Changes have been made to the descriptions of all affected access method services commands to reflect the RACF-specified ERASE attribute for a non-VSAM data set and for a VSAM cluster or alternate index. The first four sections of this manual have been reorganized to improve usability.
AMSV—MVS/Extended Architecture VSAM Catalog Administration: Access Method Services Reference, GC26-4136	 The EXAMINE command allows you to analyze and report on the structural consistency of either an index or a data component of a key-sequenced data set (KSDS) cluster. Information has been added to the DEFINE and DELETE commands for non-VSAM data sets to reflect the RACF ERASE attribute available in RACF Version 1 Release 7. The first four sections of this manual have been reorganized to improve usability.
CAG—MVS/Extended Architecture Catalog Administration Guide, GC26-4138	 Chapter 2 has been updated to support the increase in block sizes allowed. Chapter 3 has been updated for ERASE-on-SCRATCH support.
CPRT— <u>MVS/Extended Architecture</u> <u>Checkpoint/Restart User's Guide</u> , GC26-4139	This manual has not been updated.
DAG— <u>MVS/Extended Architecture Data</u> <u>Administration Guide</u> , GC26-4140	New information has been added regarding RACF protection for non-VSAM data sets and tape volumes and regarding erasing RACF-protected DASD data sets.
DAMI— <u>MVS/Extended Architecture Data</u> Administration: Macro Instruction Reference, GC26-4141	Technical changes have been made concerning certain functions. These changes are reflected by revision bars.

Code—MVS/XA Publication	Changes/Additions for Release 2.0
GI—MVS/Extended Architecture Data Facility Product Version 2: General Information, GC26-4142	 A new chapter, "Interactive Storage Management," describes how to manage data and storage interactively under MVS/XA using the interactive storage management facility (ISMF). The new storage management library is briefly described. Appendix A contains a summary of the enhancements for each release of MVS/XA Data Facility Product Version 2.
ICG— <u>Interactive Storage Management</u> <u>Facility Customization Guide</u> , GC26-4267	This is a new manual. It describes a procedure to tailor interactive storage management facility panels, messages, and skeletons.
IUG <u>Interactive Storage Management</u> <u>Facility User's Guide</u> , GC26-4266	This is a new manual. It describes the use of the interactive storage management facility to analyze and manage data and processing resources to meet planned processing goals.
LEL MVS/Extended Architecture Linkage Editor and Loader User's Guide, GC26-4143	The appendixes have been reorganized.
PG—MVS/Extended Architecture Data Facility Product Version 2: Planning Guide, GC26-4147	Information to support the following enhancements to existing program and data management support has been added: • Interactive storage management facility (ISMF) • CVAF Filter (CVAFFILT) • Additional block sizes for integrated catalog facility catalogs
SDA—MVS/Extended Architecture System—Data Administration, GC26-4149	 Information has been added for support of CVAF Filter Services. The format of the CVPL in Chapter 1, "Managing the Volume Table of Contents," has been updated. Appendix A contains the CVAFFILT macro syntax and explains the parameters, register contents, and return codes. Appendix B contains an example of a CVAFFILT invocation. Information has been added for support of DASD Calculation Services. Chapter 5, "Exit Routines," describes the use of the DASD Calculation Services precalculation and postcalculation installation exits. It also explains the parameters, register contents, and return codes. Chapter 1, "Managing the Volume Table of Contents," has been reorganized and rewritten for ease of use. Chapter 7, "Maintaining SYS1.IMAGELIB," has been reorganized and rewritten for ease of use. Appendix E has been added to provide interface information for DFP/ISMF services.

Code—MVS/XA Publication	Changes/Additions for Release 2.0
SYSG—MVS/Extended Architecture Installation: System Generation, GC26-4148	 A chapter has been added explaining how to install Interactive Storage Management Facility (ISMF) Support. The chapter includes sections on planning for installation, and on making ISMF available to users of the Time Sharing Option (TSO). The DATASET macro has been updated to include the ISMF system data sets. The space allocations used with the DATASET macro have been updated for some system data sets.
TAPE—MVS/Extended Architecture Magnetic Tape Labels and File Structure Administration, GC26-4145	 Support for the IBM 3480 Tape Subsystem has been enhanced to include:
UTIL— <u>MVS/Extended Architecture Data</u> <u>Administration: Utilities</u> , GC26-4150	This manual has not been updated.
VAG— <u>MVS/Extended Architecture VSAM</u> <u>Administration Guide</u> , GC26-4151	 Block sizes from 512 bytes up to 32K bytes are now supported for ICF cataloged VSAM data sets and for the ICF catalog itself. Documentation for the datestamp control module (IDATMSTP) is included as an appendix. With the installation of RACF Version 1 Release 7, erase-on-scratch can be controlled by RACF options and data set profiles for ICF cataloged VSAM data sets. Access method services EXPORT command parameters provide a method of requesting exporting by control interval for ESDS base cluster data records with no associated alternate indexes.
VAMI— <u>MVS/Extended Architecture VSAM</u> Administration: <u>Macro Instruction</u> <u>Reference</u> , GC26-4152	Information has been added to reflect technical service changes.

UPDATES TO MVS/XA PUBLICATIONS FOR VERSION 2 RELEASE 1.0

The following table, listed in order of abbreviated code, shows publication changes and additions for Release $1.0\,$

Code—MVS/XA Publication	Changes/Additions for Release 1.0
AMSI— <u>MVS/Extended Architecture</u> <u>Integrated Catalog Administration:</u> <u>Access Method Services Reference</u> , GC26-4135	This edition has been updated to include: • Enhancements to selected DEFINE NONVSAM and IMPORT CONNECT examples • Enhancements to selected sections that are required for parameters to DEFINE PAGESPACE • Enhancements to the Device Type Translate Table for IBM 3380 Direct Access Storage support
AMSV— <u>MVS/Extended Architecture VSAM</u> <u>Catalog Administration: Access</u> <u>Method Services Reference</u> , GC26-4136	 This edition has been updated to include: Enhancements to selected DEFINE NONVSAM and IMPORT CONNECT examples Enhancements to selected sections that are required for parameters to DEFINE PAGESPACE Enhancements to the Device Type Translate Table for IBM 3380 Direct Access Storage support
CAG—MVS/Extended Architecture Catalog Administration Guide, GC26-4138	 This edition has been updated to include: Enhancements to the VVR Data Set Information Cell and VVR Volume Information Cell Enhancements to the VVR information cell examples Enhancements to the DIAGNOSE "Execution Error Messages" and "Summary Messages" Information about determining the size of a VVR An overview of the catalog address space (CAS) Support for ERASE-on-SCRATCH BCS space-estimating requirements for the IBM 3380 Direct Access Storage Models AD4, BD4, AE4, and BE4 Conversion examples of a VSAM catalog and an OS CVOL to support the IBM 3380 Direct Access Storage Models AD4, BD4, AE4, and BE4
CPRT— <u>MVS/Extended Architecture</u> <u>Checkpoint/Restart User's Guide</u> , GC26-4139	This edition has been updated to include: • Modifications to the SETPRT macro to support IBM 4248, 3262 Model 5, and 4245 Printers • Modifications that tell you how to overwrite RACF-protected DASD data sets • A write validity check option enhancement for the IBM 3480

Code—MVS/XA Publication	Changes/Additions for Release 1.0
DAG— <u>MVS/Extended Architecture Data</u> <u>Administration Guide</u> , GC26-4140	 This edition has been updated to include: Changes to the SETPRT macro to support IBM 4248, 3262 Model 5, and 4245 Printers Modifications that tell you how to overwrite RACF-protected DASD data sets A write validity check option enhancement for the IBM 3480
DAMI—MVS/Extended Architecture Data Administration: Macro Instruction Reference, GC26-4141	This edition has been updated to include: • Support for the IBM 3380 Direct Access Storage Models AD4, BD4, AE4, and BE4 • Support for IBM 4245, 4248, and 3262 Model 5 printers • Support for the IBM 3430 tape drive • Support for the IBM 3480 Magnetic Tape Subsystem • The new SYNCDEV macro • The new MSGDISP macro

Code—MVS/XA Publication	Changes/Additions for Release 1.0
GI—MVS/Extended Architecture Data Facility Product Version 2: General Information, GC26-4142	This edition has been updated to include: The Virtual Storage Constraint Relief feature that exploits the enhanced capabilities of extended architecture Catalog Management enhancements that free approximately 400K bytes of virtual storage (plus 20K bytes per open integrated catalog facility catalog) below 16 megabytes for additional user programs and catalogs Common VTOC access facility (CVAF) enhancements that save approximately 70K bytes of virtual storage below 16 megabytes Checkpoint/Restart enhancements that save approximately 70K bytes of virtual storage below 16 megabytes Support for the IBM 3380 Direct Access Storage Models AD4, BD4, AE4, and BE4, which includes changes to DASD error recovery procedures, error messages, and the DEVTYPE macro Support for the IBM 3880 Storage Control Model 21, which includes changes to the access method services commands LISTDATA and SETCACHE Support for the IBM 3880 Storage Control Model 23, which includes changes to the access method services commands LISTDATA and SETCACHE Support for the IBM 3480 Magnetic Tape Subsystem, which includes: A new MSGDISP macro to control the appearance of device and user messages for the 3480's message display Fast positioning during OPEN processing when the tape block identifier is provided Additions to the existing NOTE and POINT data management macros to support for block positioning by either block count or the locate block function A new SYNCDEV macro to synchronize the use of buffered tape write instructions in critical environments

Code—MVS/XA Publication	Changes/Additions for Release 1.0
GI—MYS/Extended Architecture Data Facility Product Version 2: General Information, GC26-4142 (continued)	• Support for the IBM 3430 Magnetic Tape Subsystem • Support for the IBM 4245 Printer, which includes changes to error recovery procedures and messages • Support for the IBM 4248 Printer, which includes changes to error recovery procedures, messages, and the SETPRT macro • Support for the IBM 3262 Model 5 • Printer • Changes to the REALLOC DADSM macro that allocate space for absolute-track-allocated data sets, ISAM data sets, and unmovable data sets on volumes with indexed VTOCs • A new macro, PARTREL, that releases unused space on a data set • Enhancements to the VSAM JRNAD user exit that allows you to cancel a request for a control interval or a control area split • A new parameter, ACTION=REFRESH, to the VSAM VERIFY macro, which indicates that VSAM control blocks should be updated from information in the catalog after verifying the high-used relative byte address (RBA) • A new command, DEVSERV, which tests all paths to a device and displays information about the logical status of each path on the system console • A new parameter, ERASE, which, when used with the access method services commands ALTER, DEFINE, DELETE, EXPORT, and IMPORT, ensures that confidential information in the data component of a VSAM cluster or alternate index is completely erased when the data set is deleted • Tape block count checking for all magnetic tape devices that use block identifiers (such as the 3480), which improves tape reliability • Enhancements to the IEBCOPY utility program, which allow reblocking of overlay modules, and increase the maximum output block size for load modules to 32760 bytes • Enhancements to the linkage editor, which accept a maximum output block size for load modules of 32760 bytes and set all uninitialized space in a text block to binary zeros
LEL—MVS/Extended Architecture Linkage Editor and Loader User's Guide, GC26-4143	This edition has been updated to support the IBM 3380 Direct Access Storage Models AD4, BD4, AE4, and BE4

Code—MVS/XA Publication	Changes/Additions for Release 1.0
PG-MVS/Extended Architecture Data Facility Product Version 2: Planning Guide, GC26-4147	This edition has been updated to include: Hardware support for the: IBM 3265 Model 5 Printer IBM 3380 Direct Access Storage Models AD4, BD4, AE4, BE4 IBM 3430 Magnetic Tape Subsystem IBM 3480 Magnetic Tape Subsystem IBM 3880 Storage Control Model 21 IBM 3880 Storage Control Model 23 IBM 4245 Printer IBM 4248 Printer Software support for: Tape block count checking VSAM VERIFY support VSAM JRNAD exits Catalog address space support DADSM partial release macro DADSM REALLOC enhancements DADSM data set erase function
SDA—MVS/Extended Architecture System—Data Administration, GC26-4149	This edition has been updated to include: • Enhancements to the SCRATCH and CAMLST SCRATCH macros, which support the erasure of residual DASD data • New keywords and return codes to the REALLOC macro for DADSM support of DFDSS • The new PARTREL macro • The new MSGDISP macro, which lets you load a message display on the IBM 3480 Magnetic Tape Subsystem • The erase-on-scratch option for RACF-defined data sets • Support for the 3262 Model 5, 4245, and 4248 Printers • Support for all models of the IBM 3380 Direct Access Storage • Support for the high-speed positioning feature on the IBM 3480 Magnetic Tape Subsystem • Support for setting the tape block ID of the IBM 3480 Magnetic Tape Subsystem in full function mode

Code—MVS/XA Publication	Changes/Additions for Release 1.0
SYSG—MVS/Extended Architecture Installation: System Generation, GC26-4148	This edition has been updated to include: Enhancements to the DATAMGT and IODEVICE macros and to the description of SYS1.IMAGELIB. to support the IBM 3262 Model 5 Printer A change to the IODEVICE macro, which lets you specify the IBM 3262 Model 5 printer as UNIT=4248 A change to the IODEVICE macro, which lets you specify the IBM 3350 Direct Access Storage attached to the IBM 3880 Storage Control Model 21 as UNIT=3351P A change to the IODEVICE macro, which lets you specify the IBM 3380 Direct Access Storage attached to the IBM 3880 Storage Control Model 23 as UNIT=3380 Support for the IBM 3380 Direct Access Storage Models AD4, BD4, AE4, and BE4 A change to the IODEVICE macro that supports the IBM 3430 Magnetic Tape Subsystem Enhancements to the device tables and the example of sysgen in that support for the IBM 3430 Magnetic Tape Subsystem Changes to the DATAMGT and IODEVICE macros and to the description of SYS1.IMAGELIB, which support the IBM 4245 Printer Enhancements to the device tables and the example of sysgen in that support for the 4245 Changes to the DATAMGT and IODEVICE macros and to the description of SYS1.IMAGELIB, which support the IBM 4248 Printer Enhancements to the device tables and the example of sysgen in that support for the 4245 Changes to the DATAMGT and IODEVICE macros and to the description of SYS1.IMAGELIB, which support the IBM 4248 Printer Enhancements to the device tables and the example of sysgen in that support for the 4248 Printer Enhancements to the device tables and the example of sysgen in that support for the 4248 Printer
TAPE—MVS/Extended Architecture Magnetic Tape Labels and File Structure Administration, GC26-4145	This edition has been updated to support the IBM 3430 Magnetic Tape Subsystem and the 18-track tape feature of the IBM 3480 Magnetic Tape Subsystem
UTIL—MVS/Extended Architecture Data Administration: Utilities, GC26-4150	 This edition has been updated to include: Enhancements to the examples that support the IBM 3380 Direct Access Storage Models AD4, BD4, AE4, and BE4 Enhancements to IEBCOPY, IEBGENER, IEHINITT, IEHLIST, and IEHPROGM Enhancements to the FCB statement in IEBIMAGE that create forms control buffer modules you use with the IBM 4248 Printer Enhancements to IEBIMAGE that support IBM 3262 Model 5 and 4245 Printers

Code—MVS/XA Publication	Changes/Additions for Release 1.0
VAG─ <u>MVS/Extended Architecture VSAM</u> <u>Administration Guide</u> , GC26-4151	 This edition has been updated to include: Enhancements to the JRNAD user exit, which allow you to cancel a request for a control interval or control area split Additions to the device tables to support all models of the IBM 3380 Direct Access Storage
VAMI— <u>MVS/Extended Architecture VSAM</u> <u>Administration: Macro Instruction</u> <u>Reference</u> , GC26-4152	This edition has been updated to include a new parameter, ACTION=REFRESH, to the VERIFY macro.

GLOSSARY OF TERMS AND ABBREVIATIONS

The following terms and abbreviations are defined as they are used in the MVS/XA Data Facility Product library. If you do not find the term or abbreviation you are looking for, see IBM Vocabulary for Data Processing, Telecommunications, and Office Systems, GC20-1699.

This glossary includes acronyms and abbreviations developed by the American National Standards Institute (ANSI) and the International Organization for Standardization (ISO). This material is reproduced from the American National Dictionary for Information Processing, copyright 1977 by the Computer and Business Equipment Manufacturers American National Standards Institute, 1430 Broadway, New York, New York 10018.

ABE. abnormal end (ABEND).

ABSTR. absolute track.

ACB. access method control block.

ACDS. alternate control data set.

AIX. alternate index.

AL. American National Standard tape labels.

AMODE. addressing mode.

AMS. access method services.

ANSI. American National Standards Institute.

APF. Authorized Program Facility.

ASCII. American National Standard Code for Information Interchange.

AUL. American National Standard user tape labels.

AVR. automatic volume recognition.

BCDIC. binary coded decimal interchange code.

BCS. basic catalog structure.

BDAM. basic direct access method.

BDW. block descriptor word.

BISAM. basic indexed sequential access method.

BLKSIZE. block size.

BPAM. basic partitioned access method.

bpi. bits per inch.

BSAM. basic sequential access method.

BSC. binary synchronous communication.

BTAM. basic telecommunications access method.

CA. channel adapter; or control area.

CBIC. control blocks in common.

CBUF. control block update facility.

CCHH. cylinder/head address (in hexadecimal).

CCW. channel command word.

CDS. control data set.

CESD. composite external symbol dictionary.

CHS. channel set switching.

CI. control interval.

CIDF. control interval definition field.

CKDS. cryptographic key data set.

CRA. catalog recovery area.

CRH. channel reconfiguration hardware.

CS. channel set.

CSA. common service area.

CSECT. control section.

CSW. channel status word.

CTC. channel-to-channel.

CVAF. common VTOC access facility.

CVOL. control volume.

CVPE. control volume pointer entry.

DADSM. direct access device storage management.

DASD. direct access storage device(s).

DAT. dynamic address translation.

DCB. data control block.

DCBD. data control block dummy section.

DD. data definition.

DEB. data extent block.

DECB. data event control block.

DES. Data Encryption Standard (United States National Bureau of Standards).

DFDSS. Data Facility Data Set Services.

DLIB. distribution library.

DOS. Disk Operating System.

DPI. data protection image

DSCB. data set control block.

DSECT. dummy control section.

DSI. dynamic system interchange.

EBCDIC. extended binary coded decimal interchange code.

EDT. eligible device table.

EOD. end-of-data.

EOF. end-of-file.

EOKR. end-of-key range.

EOM. end-of-module.

EOV. end-of-volume.

ERP. error recovery procedure.

ESD. external symbol dictionary.

ESDS. entry-sequenced data set.

ESV. error statistics by volume.

EXCP. execute channel program.

FCB. forms control buffer.

GAM. graphic access method.

GCR. group coded recording.

GDG. generation data group.

GDGNT. generation data group name table.

GDS. generation data set.

GRS. global resource serialization.

GSR. global shared resources.

GTF. generalized trace facility.

HA. home address.

ICF. integrated catalog facility.

I/O. input/output.

IOB. input/output block.

IOCP. input/output configuration program.

IOGEN. input/output device generation.

IORB. input/output request block.

initial program load. IPL.

IRG. interrecord gap.

ISAM. indexed sequential access method.

ISCII. International Reference Version of the International Standard Code for Information Interchange.

International Organization for Standardization.

IVP. installation verification procedure.

JCL. job control language.

JES. job entry subsystem.

JFCB. job file control block.

JFCBE. job file control block extension (for the 3800 printer).

KSDS. key-sequenced data set.

LPA. link pack area.

LPALIB. link pack area library.

LSQA. local system queue area.

LSR. local shared resources.

MCP. message control program.

MCS. multiple console support.

MSS. Mass Storage System.

MSVC. mass storage volume control.

NCP. number of channel programs.

NIP. nucleus initialization program.

NSL. nonstandard tape label.

OMR. optical mark read.

os. operating system.

OS CVOL. operating system control volume.

OS/VS. operating system/virtual storage.

PCI. program-controlled interruption.

PCU. physical control unit.

PDAB. parallel data access block.

PDS. partitioned data set.

PE. phase ending.

PEP. partitioned emulation programming. PFK. program function keyboard.

PLPA. pageable link pack area.

PPT. program properties table.

PTF. program temporary fix.

QISAM. queued indexed sequential access method.

QSAM. queued sequential access method.

RO. record zero.

RACF. Resource Access Control Facility.

RBA. relative byte address.

RCE. read column eliminate.

RDF. record definition field.

RDW. record descriptor word.

RLD. relocation dictionary.

RMF. resource management facility.

RMODE. residence mode.

RPG. Report Program Generator.

RPL. request parameter list.

RPS. rotational position sensing.

RRDS. relative record data set.

RRN. relative record number.

RSECT. read-only control section (in nucleus).

SAM. sequential access method.

SDW. segment descriptor word.

SEOF. software end-of-file.

SL. IBM standard tape labels.

SMF. System Management Facilities.

SMP. System Modification Program.

SMP/E. System Modification Program Extended.

SQA. system queue area.

SSS. subsystem support.

SUL. IBM standard and user tape labels.

SVC. supervisor call.

SVCLIB. supervisor call library.

SWA. scheduler work area.

SYSGEN. system generation.

SYSIN. system input stream.

SYSOUT. system output stream.

SYSRES. system residence volume.

TCAM. telecommunications access method.

TCB. task control block.

TCU. transmission control unit.

TIOT. task input/output table.

TMP. terminal monitor program.

TRC. table reference character.

TSO. time sharing option.

TTR. track record.

UCB. unit control block.

UCS. universal character set.

UHL. user header label.

USAR. user security authorization record.

USVR. user security verification routine.

UTL. user trailer label.

VIO. virtual input/output.

VIXM. VTOC index map.

VMDS. VTOC map of DSCBs.

VPSM. VTOC pack space map.

VSAM. virtual storage access method.

VSI. VSAM shared information.

VTAM. virtual telecommunications access method.

VTOC. volume table of contents.

VVCR. VSAM volume control record.

VVDS. VSAM volume data set.

VVR. VSAM volume record.

WCGM. writeable character generation module.

WXTRN. weak external reference.

XA. extended architecture.

XLRI. extended logical record interface.

XTRN. external reference.

abnormal-end appendage

See also ABE appendage Special Characters user-written SYSG abnormally terminate a job AMSI abort a job AMSV \$PRIVATE LEL absexp defined DAMI absolute actual address **GO LEL defined DAG absolute expression defined DAMI absolute generation name DAG AC option LEL ACB CPRT, VAG control interval access, A-type address constant VAMI defined DAMI improved VAG ACB (access method control block) replacing control sections LEL error field SEGWT macro LEL abbreviations CUST, DAG, DAMI reason codes from OPEN macro VAMI generating for line operators IUG
for list commands IUG
TSO restrictions AMSI, AI
abbreviations, list of CPRT
ABE appendage CUST, SDA at assembly time VAMI generating at execution time VAMI AMSV ACB macro VAMI example using local shared resources and 31-bit addressing VAMI ABE error option CUST ABEAPP parameter SYSG format VAMI generate an access method control block at assembly time abend summary VAMI codes issued by ISAM interface VAG synchronizing values VAG updating catalog information VAG inconsistent operand error VAMI ACB parameter abend codes CPRT in FIELDS parameter VAMI specifying SYSG abend exit CUST in GENCB macro VAMI in MODCB macro VAMI abend installation exit CUST in RPL macro VAMI in SHOWCB macro VAMI in TESTCB macro VAMI ABEND macro CPRT BDAM DAMI BPAM DAMI ACB subparameter BSAM DAMI ACQRANGE macro VAMI list format DAMI QSAM DAMI CNVTAD macro VAMI MNTACQ macro VAMI MRKBFR macro VAMI SCHBFR macro VAMI abend recovery IUG abnormal termination See also abend ACBLEN parameter abend installation exit CUST in FIELDS parameter VAMI accounting CPRT ACC error option CUST automatic restart CPRT BSAM CPRT access read only checkpoint entry CPRT in EXPORT command AMSI, AMSV completion of termination CPRT access method control block deferred checkpoint restart CPRT See ACB deferred step restart CPRT access method routines, functions during open, close, or EOV processing DAG performed in I/O operations SDA access method services GI ALTER CAG ESTAE exit DAG STAE exit DAG STAI exit DAG ISO/ANSI/FIPS Version 3 tapes DAG BLDINDEX CAG catalog commands GI cataloging the system data sets SYSG CHKLIST CAG CNVTCAT CAG job CPRT message sequence CPRT passed data set CPRT coding commands AMSI, AMSV continuing commands AMSI, AMSV parameters AMSI, AMSV password AMSV serially reusable resources CPRT SYSABEND data set CPRT SYSOUT data set CPRT SYSUDUMP data set CPRT PASSWORD subparameter AMSI update data set CPRT with CANCEL CPRT with CKPTREST CPRT structure AMSI, AMSV subparameters AMSI, AMSV commands CAG with ENQ CPRT work data set CPRT cryptographic option VAG data protection CAG, VAG

DEFINE CAG

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defining the system data sets SYSG DELETE CAG	ACDS (alternate control data set), SMP SYSG
DIAGNOSE CAG	ACF/TCAM (Advanced Communications
EXAMINE CAG	Function for TCAM)
EXPORT CAG	required level for Data Facility
function AMSI, AMSV	Product GI, PG
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IMPORT CAG	ACF/VTAM (Advanced Communications
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TSO terminal AMSI, AMSV	required level for Data Facility
LISTCAT CAG	Product GI, PG
listing the catalog entries SYSG password protecting the new master	ACQRANGE macro VAG format VAMI
catalog SYSG	summary VAMI
password protection GI, VAG	acquire range VAG
PRINT CAG	acquiring buffers VAG
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BSAM DAMI	adapter, specifying
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	BPAM DAMI

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QISAM DAMI	residence mode LEL
QSAM DAMI	control section name LEL
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RDJFCB SDA

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parameter DAMI	IEBGENER program UTIL
JFCBFLAG CUST	IEBIMAGE program UTIL
job and job step name	IEBIMAGE program UTIL IEBISAM program UTIL IEBPTPCH program UTIL IEBUPDTE program UTIL IEHATLAS program UTIL IEHINITT program UTIL
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IEBUPDTE program UTIL	example UTIL
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loader processing	the SYSG
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WAIT CPRT WRITE CPRT WTOR CPRT macros, data management See also CVAFDIR macro See also CVAFDSM macro See also CVAFFILT macro	execute form DAMI for modified JFCB SDA list form DAMI standard form DAMI used with EXCP macro SDA PARTREL SDA PDAB DAMI
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SYNADRLS DAMI	short error recovery procedure DAMI
TRKCALC SDA	standard labels CPRT
TRUNC DAMI	use of CPRT
used with XDAP macro SDA	volumes CPRT
WAIT DAMI WRITE for	7-track CPRT magnetic tape characteristics TAPE
BDAM DAMI	magnetic tape characteristics TATE magnetic tape labels
BISAM DAMI	See labels, tape
BPAM DAMI	magnetic tape units, IODEVICE macro
BSAM DAMI	parameter values for SYSG
execute form DAMI	magnetic tape volumes
list form DAMI XDAP SDA	defined DAG
XLATE DAMI	density DAG labels
macros, IOCP	American National Standard DAG
names of	none DAG
CHPID SYSG	nonstandard DAG
CNTLUNIT SYSG	standard DAG
ID SYSG required and optional SYSG	user CUST organization DAG
summary of SYSG	positioning
macros, linkage editor	during close processing DAG
format LEL	during end-of-volume
macros, sysgen	processing DAG
execution of SYSG	RECFM (record format) DAG
names of	serial number DAG
AFFINITY SYSG CKPTREST SYSG	tapemarks DAG maintaining SDA
CONSOLE SYSG	See also PROTECT macro
CTRLPROG SYSG	PASSWORD data set SDA
DATAMGT SYSG	VTOC (volume table of contents) SDA
DATASET SYSG	maintaining data set passwords UTIL
EDIT SYSG EDTGEN SYSG	maintenance, alternate index VAG managing I/O buffers for shared
GENERATE SYSG	resources VAG
IODEVICE SYSG	manipulating control block contents VAG
JES SYSG	MAP option
SCHEDULR SYSG	linkage editor LEL
SVCTABLE SYSG	loader LEL
TSO SYSG UNITNAME SYSG	mapping macros
required and optional SYSG	CVT SDA IEFJFCBN SDA
summary of SYSG	IEFUCBOB SDA
macros, VSAM	mapping requests CAG
conversion to integrated catalog	TSO to integrated catalog facility or
facility PG MAGCDRD feature SYSG	VSAM catalog CAG maps of allocated space
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ANSI labels CPRT	for VIRs SDA
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BSP macro DAMI	in ACB macro VAMI
CNTRL macro DAMI checkpoint entry CPRT	in FIELDS parameter VAMI in GENCB macro VAMI
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BSP macro DAMI	coding AMSI, AMSV
CLOSE macro DAMI	MARGINS parameter
POINT macro DAMI	in PARM command AMSI, AMSV
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FEOV (final volume positioning)	marking records inactive VAMI
macro DAMI	mass sequential insertion VAG
forward space DAMI interface in DCB DAMI	Mass Storage Control Table Create SYSG
labels GI	Mass Storage System DAG See also MSS
nonstandard labels CPRT	Mass Storage System (MSS) CPRT
processing CPRT	user catalog defined CAG
read backward DAMI	mass storage volume
recording technique DAMI	user catalog defined on CAG
restriction CPRT NOTE macro DAMI	master catalog CAG, DAG alternate CAG, PG
POINT macro DAMI	arternate ono, ro

converting VSAM to integrated catalog	MCONS parameter SYSG
facility PG defining AMSI	MCP CPRT MCP (message control program) region,
using access method services SYSG	for TCAM CPRT
using DATASET macro SYSG	MCS (multiple console support) secondary
initialization of SYSG	console SYSG
order of search CAG	media manager
password protection for SYSG	VSCR (virtual storage constraint
pointer to	relief) GI
initializing SYSG	member
location of SYSG requirements for specifying SYSG	checkpoint entry CPRT deleted CPRT
specifying name of SYSG	DSNAME parameter CPRT
using from previous system SYSG	member name
master catalog, conversion CAG	definition LEL
master catalog, converting CAG	example LEL
master console, specifying SYSG	specifying LEL
master index DAG	MEMBER parameter
highest level in storage address of storage area DAMI	ADD statement UTIL CHANGE statement UTIL
size of storage area DAMI	EXCLUDE statement UTIL
option specified in DCB DAMI	RENAME statement UTIL
master password VAG	REPL statement UTIL
master scheduler options,	REPLACE statement UTIL
specifying SYSG	INCLUDE statement UTIL RENAME statement UTIL REPL statement UTIL REPLACE statement UTIL REPRO statement UTIL SCRATCH statement UTIL SELECT statement UTIL
MASTERCATALOG parameter in CNVTCAT command AMSI, AMSV	SELECT statement UTIL
in DEFINE command SYSG	MEMBER statement
MASTERCATALOG subcommand	IEBGENER program UTIL
in DEFINE command AMSI, AMSV	IEBPTPCH program UTIL
MASTERPW parameter	NAME parameter UTIL
in ALTER command AMSI, AMSV	member, partitioned data set
NULLIFY AMSI, AMSV in DEFINE command	complete a list with BLDL macro DAMI
ALTERNATEINDEX AMSI, AMSV	including LEL input to the linkage editor LEL
CLUSTER AMSI, AMSV	input to the loader LEL
PAGESPACE AMSI, AMSV	locate beginning with FIND
PATH AMSI, AMSV	macro DAMI
USERCATALOG AMSI, AMSV	update directory with STOW
in EXPORTRA command AMSV in LISTCRA command AMSV	macro DAMI MEMBERS parameter SYSG
in RESETCAT command AMSV	menu
MAXBLK parameter	See selection panel
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MAXCC parameter	MERGECAT parameter
in IF command AMSI, AMSV in SET command AMSI, AMSV	in REPRO command AMSI
MAXDCB operand	merging integrated catalog facility
PDAB macro DAMI	catalog AMSI
MAXFLDS parameter	example AMSI
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PRINT statement UTIL	IEBCOPY program UTIL
PUNCH statement UTIL MAXGPS parameter	merging control block data TAPE
GENERATE statement UTIL	message area header information VAMI
PRINT statement UTIL	message list VAMI
PUNCH statement UTIL	OPEN/CLOSE VAMI
maximum condition code AMSI, AMSV	provided by VSAM VAMI
maximum record size for device	message control program region for
types LEL MAXLINE parameter	TCAM CPRT
PRINT statement UTIL	message IEC704A C CUST message library PG
MAXLITS parameter	as DLIB PG
GENERATE statement UTIL	as execution data set PG
PRINT statement UTIL	what you can customize CUST
PUNCH statement UTIL	where it is stored CUST
MAXNAME parameter GENERATE statement UTIL	messages IUG
PRINT statement UTIL	ABEND CPRT at restart CPRT
PUNCH statement UTIL	authorization for restart CPRT
MAXSIZE operand (TRKCALC macro) SDA	checkpoint ID CPRT
MBBCCHHR	checkpoint not taken CPRT

CVAF VTOC error	MLEN parameter
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programmer response SDA return codes SDA	in FIELDS parameter VAMI
routing codes SDA	in GENCB macro VAMI MNTACQ macro VAG
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when issued SDA	MOD data set
data set security CPRT	automatic step restart CPRT
disposition LEL	checkpoint entries CPRT
during automatic checkpoint	during automatic restart CPRT
restart CPRT	during automatic step restart CPRT
during deferred checkpoint	during deferred step restart CPRT
restart CPRT EOV CPRT	example CPRT
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examples SYSG	with EXTEND CPRT
format of SYSG	with OUTINX CPRT
Stage I SYSG	modal command
Stage II SYSG	PARM command AMSI, AMSV
when verifying the EDT SYSG	TSO restrictions AMSI, AMSV
examples LEL	MODCB macro VAG
finding CUST	example VAMI
format LEL	execute form VAMI
from DIAGNOSE CAG	reentrant example VAMI
IDC3009I CAG	with parameter lists built by
IDC3351I CAG IEC331I CAG	user VAMI format VAMI
informational	generate form VAMI
format of SYSG	linking to VSAM directly VAMI
when verifying the EDT SYSG	list form VAMI
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in SETPRT macro DAMI	CLUSTER AMSI, AMSV
OPTCD operand (DCB macro)	in IMPORT command AMSI, AMSV
device dependence DAG	organization, data set
request user totaling (OPTCD=T) CUST	See access methods
with BDAM DAG	origin
with ISAM DAG	control section in module map LEL
with ISCII/ASCII tapes (OPTCD=Q) DAG	region LEL
OPTCD parameter in GENCB macro VAMI	segments LEL OS CVOL DAG, GI
in RPL macro VAMI	accessing CAG
in TESTCB macro VAMI	ALLOCATE command CAG
OPTCD subparameter VAG	ALTER command CAG
ACQRANGE macro VAMI	BLDA statement CAG
GETIX macro VAMI	BLDG statement CAG
in RPL macro VAMI	BLDX statement CAG
MNTACQ macro VAMI	building an index UTIL
PUTIX macro VAMI SCHBFR macro VAMI	building an index alias UTIL
OPTCD=H	building and maintaining generation data group index UTIL
embedded checkpoints, DOS tapes	CATALG statement CAG
positioning DOS tapes DAG	cataloging data sets in UTIL
MSS staging DAG	CATBX statement CAG
OPTCD=M (master index) DAG	CATLG statement CAG
OPTCD=T (user totaling) CUST	connecting or releasing UTIL
OPTCD=Z operand (DCB macro) SDA	converting to integrated catalog
optical mark read mode	facility catalog AMSI, PG
See OMR	example AMSI
optimizing control area size VAG	converting to VSAM catalog AMSV example AMSV
control interval size VAG	copying UTIL
free space distribution VAG	DEFINE command CAG
VSAM performance VAG	DELETE command CAG
option codes	deleting an index UTIL
See OPTCD operand	deleting an index alias UTIL
OPTION statement	DLTA statement CAG
DEVICE parameter UTIL	DLTX statement CAG
IEBIMAGE program UTIL OVERRUN parameter UTIL	DRPX statement CAG
optionaddr subparameter	functions not supported ALTER command CAG
PARAM parameter	DEFINE command CAG
ATTACH macro UTIL	LISTCAT command CAG
LINK macro UTIL	LISTALC command CAG
optional and required sysgen macro	LISTCAT command CAG
instructions SYSG	LISTDS command CAG_
optional operands VAMI	listing entries UTIL
optional output LEL OPTIONS parameter SYSG	examples UTIL LNKX statement CAG
options using REPRO VAG	LOCATE statement CAG
OPTIONS(RDE) parameter SYSG	moving UTIL
options, incompatible LEL	pointer in master catalog CAG
options, linkage editor	RECATLG statement CAG
addressing mode LEL	RENAME command CAG
module attributes LEL	restrictions CAG
output LEL	return codes CAG
residence mode LEL space allocation LEL	SUPERLOCATE statement CAG
special processing LEL	support CAG UCATDX statement CAG
OPTLIST UTIL	UNCATLG statement CAG
OPT1600 feature SYSG	OS CVOL processor CAG
or sign, in notation convention VAG,	mapping requests CAG
VAMI	OS CVOLS
order of catalog use AMSI, AMSV	converting CAG
ALTER AMSI, AMSV	OS/CVOL CAG
BLDINDEX AMSI, AMSV CNVTCAT AMSI, AMSV	OS/VS2 MVS
DEFINE AMSI, AMSV	as a base for Data Facility Product GI, PG
DELETE AMSI, AMSV	OUT subparameter
LISTCAT AMSI, AMSV	in MACRF parameter of the ACB
order of processing on lists IUG	macro VAMI

in MRKBFR macro VAMI	output of linkage editor
OUTDATASET parameter	diagnostic messages LEL
in BLDINDEX command AMSI, AMSV	load module LEL
in CNVTCAT command AMSI, AMSV in EXPORT command AMSI, AMSV	optional output LEL output module library LEL
in IMPORT command AMSI, AMSV	output module library LLL output options LEL
in REPRO command AMSI, AMSV	output of the loader
OUTDD parameter	messages LEL
ALTERMOD statement UTIL	module map LEL
COPY statement UTIL	specifying LEL
COPYMOD statement UTIL	OUTPUT operand (OPEN macro) DAG, DAMI
OUTFILE parameter	when using POINT macro DAG
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in CHKLIST command AMSI, AMSV	DSD statement UTIL
in CNVTCAT command AMSI, AMSV in DIAGNOSE command AMSI	output partitioned member
in EXPORT command AMSI, AMSV	example UTIL output records
in EXPORTRA command AMSV	creating
in IMPORT command AMSI, AMSV	example UTIL
in IMPORTRA command AMSV	example UTIL
in LISTCAT command AMSI, AMSV	generating UTIL
in LISTCRA command AMSV	output stream DAG
in PRINT command AMSI, AMSV	output text record length LEL
in REPRO command AMSI, AMSV	output trailer label routine CUST
OUTHDR parameter ADD statement UTIL	OUTREC parameter EXITS statement UTIL
CHANGE statement UTIL	OUTTLR parameter
EXITS statement UTIL	ADD statement UTIL
REPL statement UTIL	CHANGE statement UTIL
REPRO statement UTIL	EXITS statement UTIL
OUTHDR/OUTLR parameter	REPL statement UTIL
available from IEBCOMPR CUST	REPRO statement UTIL
available from IEBGENER CUST	overflow
OUTIN operand (OPEN macro) DAG, DAMI	area DAG
OUTINX operand (OPEN macro) DAG, DAMI,	independent DAMI
SDA output class, specifying SYSG	chain DAG channel DAMI
output data set	cylinder
closing DAMI	See cylinder overflow
contents UTIL	exit address (PRTOV macro) DAMI
creating UTIL	independent area DAG
maintaining DCBBLKCT field SDA	printer carriage DAMI
opening DAMI	PRTOV macro DAG
reblocking UTIL	records DAG
with ANSI standard labels TAPE with IBM standard labels TAPE	track description DAG
with no labels TAPE	restriction on BSP macro DAG
with nonstandard labels CUST	
	restriction with parallel input
WRILE or PUL specified in DCB macro	restriction with parallel input
WRITE or PUT specified in DCB macro BDAM DAMI	processing DAG restriction with RPS feature DAG
	processing DAG restriction with RPS feature DAG
BDAM DAMI BISAM DAMI BPAM DAMI	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI QISAM DAMI	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI QISAM DAMI QSAM DAMI	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI QISAM DAMI QSAM DAMI writing	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI restrictions DAMI
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI QISAM DAMI QSAM DAMI Writing BDAM DAMI	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI restrictions DAMI chained scheduling DAMI
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI QISAM DAMI QSAM DAMI Writing BDAM DAMI BISAM DAMI	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI restrictions DAMI chained scheduling DAMI ISAM DAG
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI BSAM DAMI QISAM DAMI QSAM DAMI writing BDAM DAMI BISAM DAMI BISAM DAMI	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI restrictions DAMI chained scheduling DAMI ISAM DAG with OPTCD operand DAMI
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI QISAM DAMI QSAM DAMI Writing BDAM DAMI BISAM DAMI	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI restrictions DAMI chained scheduling DAMI ISAM DAG
BDAM DAMI BISAM DAMI BPAM DAMI BPAM DAMI BSAM DAMI QISAM DAMI QSAM DAMI writing BDAM DAMI BISAM DAMI BISAM DAMI BPAM DAMI BPAM DAMI BSAM DAMI BSAM DAMI BSAM DAMI	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI restrictions DAMI chained scheduling DAMI ISAM DAG with OPTCD operand DAMI overlap of input/output performance improvement DAG with partitioned data sets DAG
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI BSAM DAMI QISAM DAMI QSAM DAMI writing BDAM DAMI BISAM DAMI BISAM DAMI BSAM DAMI	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI restrictions DAMI chained scheduling DAMI ISAM DAG with OPTCD operand DAMI overlap of input/output performance improvement DAG with queued access method DAG
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI QISAM DAMI QSAM DAMI writing BDAM DAMI BISAM DAMI BISAM DAMI BSAM DAMI BSAM DAMI BSAM DAMI BSAM (write to a direct data set) DAMI QISAM DAMI	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI restrictions DAMI chained scheduling DAMI ISAM DAG with OPTCD operand DAMI overlap of input/output performance improvement DAG with partitioned data sets DAG with queued access method DAG with sequential data sets DAG
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI BSAM DAMI QISAM DAMI QSAM DAMI writing BDAM DAMI BISAM DAMI BISAM DAMI BSAM DAMI BSAM DAMI BSAM DAMI BSAM DAMI BSAM DAMI OUTPUT data sets	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI quantity of the processing of the processing of the processing of the processing, with option of the processing, with sequential data sets DAG overlap of loading and processing,
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI QISAM DAMI QSAM DAMI writing BDAM DAMI BISAM DAMI BISAM DAMI BISAM DAMI BOAM DAMI BOAMI BOAM DAMI OUTPUT DAMI O	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI quantity of the processing of the processing of the processing of the processing, overlay segments LEL
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI QISAM DAMI QISAM DAMI Writing BDAM DAMI BISAM DAMI BISAM DAMI BISAM DAMI BOAM DAMI COLOR DAMI COLO	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI QSAM DAMI restrictions DAMI chained scheduling DAMI ISAM DAG with OPTCD operand DAMI overlap of input/output performance improvement DAG with partitioned data sets DAG with queued access method DAG with sequential data sets DAG overlap of loading and processing, overlay segments LEL overlay attribute
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI QISAM DAMI QSAM DAMI Writing BDAM DAMI BISAM DAMI BISAM DAMI BOAM DAMI OUTPUT D	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI QSAM DAMI restrictions DAMI chained scheduling DAMI ISAM DAG with OPTCD operand DAMI overlap of input/output performance improvement DAG with partitioned data sets DAG with queued access method DAG with sequential data sets DAG overlap of loading and processing, overlay segments LEL overlay attribute specifying LEL
BDAM DAMI BISAM DAMI BPAM DAMI BPAM DAMI BSAM DAMI QISAM DAMI QSAM DAMI writing BDAM DAMI BISAM DAMI BISAM DAMI BSAM DAMI BSAM DAMI BSAM DAMI BSAM DAMI OUTPUT data sets including job steps UTIL output header label routine CUST output keywords LISTCAT command AMSI, AMSV	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI QSAM DAMI restrictions DAMI chained scheduling DAMI ISAM DAG with OPTCD operand DAMI overlap of input/output performance improvement DAG with partitioned data sets DAG with queued access method DAG with sequential data sets DAG overlap of loading and processing, overlay segments LEL overlay attribute specifying LEL overlay frame DAMI
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI QSAM DAMI writing BDAM DAMI BISAM DAMI BISAM DAMI BSAM DAMI BSAM Write to a direct data set) DAMI QISAM DAMI QISAM DAMI QUISAM DAMI QUI	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI restrictions DAMI chained scheduling DAMI ISAM DAG with OPTCD operand DAMI overlap of input/output performance improvement DAG with partitioned data sets DAG with queued access method DAG with sequential data sets DAG overlap of loading and processing, overlay segments LEL overlay attribute specifying LEL overlay frame DAMI overlay load modules
BDAM DAMI BISAM DAMI BPAM DAMI BPAM DAMI BSAM DAMI QISAM DAMI QSAM DAMI writing BDAM DAMI BISAM DAMI BISAM DAMI BSAM DAMI BSAM DAMI BSAM DAMI BSAM DAMI OUTPUT data sets including job steps UTIL output header label routine CUST output keywords LISTCAT command AMSI, AMSV	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI QSAM DAMI restrictions DAMI chained scheduling DAMI ISAM DAG with OPTCD operand DAMI overlap of input/output performance improvement DAG with partitioned data sets DAG with queued access method DAG with sequential data sets DAG overlap of loading and processing, overlay segments LEL overlay attribute specifying LEL overlay frame DAMI overlay load modules IEBCOPY program UTIL overlay program
BDAM DAMI BISAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI QSAM DAMI writing BDAM DAMI BISAM DAMI BISAM DAMI BSAM DAMI BSAM Write to a direct data set) DAMI QISAM DAMI QISAM DAMI QUISAM DAMI OUTPUT DATA COUTPUT DATA COUTP	processing DAG restriction with RPS feature DAG overflow, track BDAM DAMI BPAM DAMI BSAM DAMI QSAM DAMI restrictions DAMI chained scheduling DAMI ISAM DAG with OPTCD operand DAMI overlap of input/output performance improvement DAG with partitioned data sets DAG with queued access method DAG with sequential data sets DAG overlap of loading and processing, overlay segments LEL overlay attribute specifying LEL overlay frame DAMI overlay load modules IEBCOPY program UTIL

module map LEL example AMSI multiple region LEL page space, defining VAG process LEL PAGE statement aligning control sections LEL region origin LEL summary LEL respecifying control statements LEL sample program LEL page-fix segment origin LEL appendage single region LEL See PGFX appendage special considerations LEL pageable address space, V=R pageable link pack area SYSG specifying LEL See also PLPA storage requirements LEL PAGEDSN parameter SYSG OVERLAY statement pages, fixing in real storage VAG PAGESPACE parameter in DELETE command AMSI, AMSV in LISTCAT command AMSI, AMSV specifying LEL summary LEL overlay supervisor, definition LEL overlay tree
positioning segments LEL
overprinting DAMI PAGESPACE subcommand in DEFINE command AMSI, AMSV override, diagnostic SYSG paging environment, related control overriding cataloged procedures block group DAG DD statements LEL paging slot EXEC statement LEL for page space AMSI, AMSV OVERRUN parameter paging, excessive with extra OPTION statement UTIL
OVLY attribute LEL buffers VAG PAGNUM parameter SYSG OVRCT field in formatted VTOC listing UTIL PG panel library as DLIB PG owner identification as execution data set PG in IBM standard volume label TAPE what you can customize CUST where it is stored CUST owner identifier panel types IUG in ANSI standard volume label TAPE OWNER parameter panels in ALTER command AMSI, AMSV NULLIFY AMSI, AMSV in DEFINE command ALTERNATEINDEX AMSI, AMS adding fields CUST creating new CUST default values CUST AMSI, AMSV finding CUST CLUSTER AMSI, AMSV GENERATIONDATAGROUP modifying fields on the data set list special considerations CUST modifying fields on the list CUST AMSI, AMSV NONVSAM AMSI, AMSV PAGESPACE AMSI, AMSV PATH AMSI, AMSV USERCATALOG AMSI, AMSV where to make changes CUST modifying text CUST priming values CUST removing fields CUST INITT statement UTIL restricting values for input fields CUST ownerid subparameter coding AMSI, AMSV restrictions to customizing CUST testing changes CUST parallel data access block Р See PDAB parallel data access block (PDAB) CUST, padded record DAG parallel input processing CUST, DAG end-of-block condition DAG PARAM parameter ATTACH macro page boundary SDA UTIL LINK macro UTIL aligning control sections or named common areas LEL parameter page data sets addressing mode LEL adding after IPL SYSG combination LEL contents SYSG residence mode LEL defining parameter list using access method services using DATASET macro SYSG See also CVPL See also DADSM pre/postprocessing generation of SYSG exits password protection for SYSG specifying name SYSG See also data management ABEND installation exit specifying volume (or SYSG See also DCB OPEN installation exit See also DCS pre/postcalculation using from previous system SYSG page fix list processing exits SDA See also format-1 DSCB not found page margins UTIL PAGE pack CPRT page space PG installation exit contents of CUST of GENCB, MODCB, SHOWCB, and TESTCB

macros VAMI

creating AMSI, AMSV

defining

use of by allocation retrieval	deleting members CPRT
list CUST	directory CPRT, GI, SYSG
use of by DCB abend exit routine CUST	expanding UTIL general description DAG
parameter list construction	incorporating source language
BUILDRCD macro DAMI	modifications
CLOSE macro DAMI	IBM-provided UTIL
OPEN macro DAMI	user-generated UTIL
READ macro DAMI	input
SETPRT macro DAMI	linkage editor LEL
WRITE macro DAMI	loader LEL
parameter list modification BUILDRCD macro DAMI	macro instructions used with DAMI merging
CLOSE macro DAMI	IEBCOPY program UTIL
OPEN macro DAMI	modifying UTIL
READ macro DAMI	moving UTIL
SETPRT macro DAMI	multiple copy operations
WRITE macro DAMI	examples UTIL
parameters AMCV	output, linkage editor LEL
coding AMSI, AMSV	printing example UTIL
parameters not supported by integrated catalog facility PG	relationship to
parentheses	BLDL macro DAMI
coding AMSI, AMSV	FIND macro DAMI
TSO restrictions AMSI, AMSV	STOW macro DAMI
parinset DD statement	renaming AMSI, AMSV
IEBDG_program UTIL	renaming members UTIL
parity TAPE	replacing identically named
PARM command AMSI, AMSV	members UTIL replacing selected members UTIL
modal command AMSI, AMSV PARM parameter (EXEC statement)	restriction CPRT
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IEBDG program UTIL	selected members
IEBIMAGE program UTIL	printing UTIL
IEBISAM program UTIL	punching UTIL
IEBUPDTE program UTIL	specifying members SYSG
IEHINITT program UTIL	specifying name of SYSG
IEHLIST program UTIL	specifying names of members to be
IEHMOVE program UTIL IEHPROGM program UTIL	copied into system data sets SYSG unloading
PARMID parameter SYSG	example UTIL
PARMI subparameter	unsuccessful completion CPRT
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PARM2 subparameter	updating members CPRT
description of VAG	with SYSCHK DD statement CPRT
parout DD statement	partitioned data set directory
IEBDG program UTIL partial release via JFCB	comparing data sets UTIL listing UTIL
modification CUST, SDA	dump format UTIL
in OPEN installation exit	edited format UTIL
example CUST, SDA	unedited format UTIL
partitioned data set	listing entries UTIL
See also BPAM data set	example_UTIL
adding members CPRT	printing UTIL
cataloging in an OS CVOL UTIL changing to sequential UTIL	example UTIL
checkid length in CHKPT macro CPRT	punching UTIL partitioned emulation programming
checkpoint identification for CPRT	extension
comparing UTIL	See PEP extension
examples UTIL	partitioned output UTIL
compressing UTIL	PARTREL macro GI, SDA
considerations for CPRT	return codes SDA
copying UTIL	passed data sets, when to define
examples UTIL IEBCOPY program UTIL	attributes TAPE passing control directly to VSAM VAMI
copying members	PASSWD parameter
examples UTIL	in ACB macro VAMI
creating	in FIELDS parameter VAMI
from sequential input UTIL	in GENCB macro VAMI
creating a backup copy	password
example UTIL	See also PROTECT macro
creating a library UTIL	authorize access VAG authorize access to data set VAG
creating from sequential input examples UTIL	control SDA
wasnipaww Vida	JUNIOR UNIO

control access CAG	DELETEP statement UTIL
control password CAG	LIST statement UTIL
counter maintenance SDA	REPLACE statement UTIL
data set concatenation SDA	PASWORD2 parameter
degrees of security CAG	ADD statement UTIL
deleting or renaming a protected data	REPLACE statement UTIL
set SDA	path PG
full access CAG	alternate index VAG
master password CAG	creating AMSI, AMSV
parameter list SDA	DEFINE RECATALOG CAG
ADD a record SDA	in overlay program LEL
DELETE a record SDA	processing VAG
LIST a record SDA	buffer allocation VAG
REPLACE a record SDA	PATH parameter SYSG
prompting CAG, VAG	in DELETE command AMSI, AMSV
protecting data sets SDA	in LISTCAT command AMSI, AMSV
protecting tape data sets SDA	PATH subcommand
protecting VTOC indexes SDA	in DEFINE command AMSI, AMSV
protection VAG	PATHENTRY parameter
access method services VAG	in DEFINE command
catalog VAG	PATH AMSI, AMSV
considerations and	patterns of test data
precautions VAG	IBM supplied UTIL
data set VAG	PC (card punch) record format DAG
non-VSAM data sets VAG	PC routine, restriction CPRT
protection mode indicator SDA	PCCB (panel cursor control block) SDA
RACF CAG	PCI appendage CUST, SDA
read access CAG	PCI flag DAG
read password CAG	PCI operand (DCB macro) SDA
record SDA	PCIA operand (DCB macro) SDA
protection mode indicator SDA	PCIAPP parameter SYSG
secondary SDA	PCLINK, restriction CPRT
standard label restriction SDA	PCU (physical control unit) SYSG
terminating protection SDA	PCU parameter SYSG
update access CAG	PDAB (parallel data access block) CUST,
update password CAG	DAG
volume switching SDA	constructing DAMI
VSAM CAG	generating a DSECT DAMI
VSAM, supported under integrated	symbolic field names DAMI
catalog facility PG	PDAB macro
PASSWORD data set DAG, GI	use by access method DAMI
characteristics SDA	use of DAMI
creating SDA	PDABD macro
listing entries UTIL	symbolic field names DAMI
protected data set records in SDA	use by access method DAMI
requirements SDA	PDS CPRT
PASSWORD parameter	See also BPAM data set
COPY DSGROUP statement UTIL	PDS parameter SYSG
COPY VOLUME statement UTIL	COPY PDS statement UTIL
MOVE DSGROUP statement UTIL	MOVE PDS statement UTIL
MOVE VOLUME statement UTIL	pdsname(membername) subparameter
password protection DAG, GI	coding AMSI, AMSV
See also data set protection	PE (phase encoded) mode TAPE
catalog CAG	PEP (partitioned emulation programming)
data set CAG	extension SYSG
non-VSAM data sets GI	performance CAG, VAG
of master catalog SYSG	BCS CAG
of page and swap data sets SYSG	improved control interval access VAG
USVR CAG	information VAG
VSAM data sets CAG, GI	options that influence CAG
PASSWORD subparameter coding AMSI, AMSV	performance improvement DAG performance measurement
TSO restrictions AMSI, AMSV	statistics kept by VSAM CAG
password-protected data set	performance-related attributes
scratching UTIL	integrated catalog facility
passwords	catalog CAG
data set	PERMANENT parameter
adding UTIL	in EXPORT command AMSI, AMSV
deleting UTIL	PF keys
replacing UTIL	See program function keys
listing entries UTIL	PFK (program function keyboard) command
passwords, maintaining	entry SYSG
data set UTIL	PFK (program function keyboard)
PASWORDI parameter	parameter SYSG

PGFX appendage SDA PGM parameter CPRT phase encoded (PE) mode TAPE portable data set exporting to AMSV for importing AMSV importing AMSI physical block size and track POS parameter capacity VAG physical control unit COPYMOD statement UTIL See PCU position feedback physical error analysis current block DAMI with control interval access next block DAMI POSITION parameter physical error message displayed in SHOWCB macro EDIT statement UTIL example VAMI VAMI position, relative key (RKP) positional parameter RBA field VAMI coding AMSI, AMSV physical errors CUST positioning physical sequential access, data buffers VAG initiating SDA following logical errors VAMI of reason codes VAMI PICTURE parameter CREATE statement with shared resources VAG FD statement UTIL positioning control sections LEL positioning for access (POINT macro) VAMI pictures, user-specified example UTIL positioning tapes using OPEN and CLOSE parameters PIRL (purged I/O restore list) use in restoring I/O requests PL/I CPRT, TAPE with ANSI standard labels TAPE PL/I program with IBM standard labels invoking access method with no labels TAPE services AMSI, AMSV with nonstandard labels placement of control statements LEL positioning volumes using CHECK macro plaintext data encrypting key VAG planning using CLOSE macro DAMI using FEOV macro DAMI for installation of Data Facility using OPEN macro Product PG DAMI planning for conversion using POINT macro DAMI of a VSAM catalog PG posting completion code in ECB following use of EXCP macro of a VSAM master catalog PG of an OS CVOL PG following use of XDAP macro SDA to an integrated catalog facility postprocessing catalog PG
planning for sysgen SYSG
PLICKPT CPRT See DADSM pre/postprocessing exits POWER parameter IEHMOVE program UTIL PPT (program properties table) PLPA (pageable link pack area) SYSG SYSG PRCTR field in formatted VTOC plus sign continuation mark POINT macro GI, VAG listing UTIL AMSI, AMSV preallocated temporary data set CPRT description DAG, DAMI PRECOMP parameter format VAMI available from IEBCOMPR CUST in EODAD routine EXITS statement UTIL position example VAMI preferred channel path, specifying PREFIX operand (IEFUCBOB macro) SDA positioning for access summary VAMI prefix, block relationship to BSAM DAG See also block prefix See also BUFOFF operand effect on block length DAMI NOTE macro DAMI restriction effect on buffer length DAMI with BSP macro DAMI effect on data alignment prefix, key DAG PREFORM parameter PRINT statement restriction with BSP macro DAG multivolume data sets return codes DAMI PUNCH statement UTIL shared resources preformatting specified in MACRF operand control area DAMI BPAM alternate index AMSI BSAM DAMI cluster AMSI updating a partitioned data set DAG control areas updating a sequential data set DAG alternate index AMSV use by access method DAMI cluster AMSV pointer to master catalog initializing SYSG location of SYSG preformatting control areas preloaded text LEL preprocessing See DADSM pre/postprocessing exits pointers prerequisite licensed programs for Data Facility Product PG alternate index VAG index VAG pointing VSAM to a record VAG prerequisite products IUG

	3203-5 CPRT
prestaging records	3211 CPRT
discretely identified VAG	3262 CPRT
restrictions and limitations VAG	4245 CPRT
specified range VAG	4248 CPRT
with MSS VAG	printer image
preventing deadlock in exclusive	See UCS image
control VAG	printing
PRGMKYBD feature SYSG	a linear data set AMSI
primary input data set	example AMSI
control statements LEL job control language	access method services CAG by relative byte address AMSI
specifications LEL	contents of a data set AMSI, AMSV
object modules LEL	data set UTIL
primary job entry subsystem, specifying	examples CAG
name of SYSG	IEHLIST LISTVTOC CAG
primary space allocation VAG	LISTCAT command CAG
alternate index AMSI, AMSV	logical records
cluster AMSI, AMSV	ISAM data set UTIL
data space AMSV	partitioned data set
page space AMSI, AMSV	example UTIL
user catalog AMSI, AMSV	partitioned data set directory UTIL
prime data area	example UTIL
description DAG	PRINT command CAG
space allocation for DAG	sequential data set
prime index VAG	examples UTIL
entry VAG	printing a data set UTIL, VAG
levels VAG	example VAG
structure VAG	printing edited data set UTIL
update VAG	printing selected members
prime key field AMSI, AMSV	partitioned data set UTIL
priming	printing selected records UTIL
for background job submission IUG	PRISUB parameter SYSG
from profile IUG	private call libraries LEL
on data entry panels IUG	private catalog CAG
priming values on panels CUST	private code
PRINT command CAG, PG, VAG	definition LEL
format AMSI, AMSV	module map LEL
optional parameters AMSI, AMSV	private key
required parameters AMSI, AMSV	decipher
PRINI loader option Iti	
PRINT loader option LEL	example AMSI, AMSV
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print option for 3525 BSAM DAMI QSAM DAMI	encipher example AMSI, AMSV PRIVATEKEY parameter
print option for 3525 BSAM DAMI QSAM DAMI Print Services Facility	encipher example AMSI, AMSV PRIVATEKEY parameter in REPRO command
print option for 3525 BSAM DAMI QSAM DAMI Print Services Facility See PSF	encipher example AMSI, AMSV PRIVATEKEY parameter in REPRO command ENCIPHER AMSI, AMSV
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processing program	DOS CPRT
invoking access method	JES2 CPRT
services AMSI, AMSV_	JES3 CPRT
processing routines TAPE	PL/I CPRT
processing rules IUG	RACF CPRT
processing the job stream (Stage	sort/merge CPRT
II) SYSG	TCAM CPRT
processing units	prompter
compatible with Data Facility	linkage editor, function of LEL
Product PG	loader, function of LEL
processor	PROTECT macro PG
specifying problem programs to run	See also password
under SYSG	parameter list
processor condition codes AMSI, AMSV	ADD function SDA
processor invocation AMSI, AMSV	DELETE function SDA
argument list AMSI, AMSV	LIST function SDA
processor time CPRT	REPLACE function SDA
PROCID parameter SYSG	protection mode indicator SDA
producing the job stream (Stage I) SYSG	return codes SDA
profile IUG	syntax SDA
background job information IUG	use with PASSWORD dataset SDA
controlling log entries IUG	protecting
DFDSS execute statement	VTOC
information IUG	with RACF SDA
invoking IUG	VTOC index
job statement information IUG	with passwords SDA
overview IUG	with RACF SDA
priming from IUG	protecting ISMF functions PG
setting up IUG	protection
program control	See also data set protection
See RACF (Resource Access Control	of data VAG
Facility)	RACF CAG, VAG
program controlled interruption	protection attribute
appendage	nullifying AMSI, AMSV
See PCI appendage	protection option, data
program fetch	BSAM DAMI
functions LEL	QSAM DAMI
module portability GI	protection, password
VSCR (virtual storage constraint	of master catalog SYSG
relief) GI	of page and swap data sets SYSG
program function keyboard command entry	providing a resource pool VAG
See PFK command entry	PRT parameter SYSG
program function keyboard parameter	PRIOV macro
program function keyboard parameter See PFK parameter	PRTOV macro
See PFK parameter	description DAG, DAMI
See PFK parameter program function keys	description DAG, DAMI device dependent DAG
See PFK parameter program function keys changing key assignments IUG	description DAG, DAMI device dependent DAG use by access method DAMI
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IEBPTPCH program UTIL	storing a record
MAXFLDS parameter UTIL	summary VAMI
MAXGPS parameter UTIL	updating with control interval
MAXLITS parameter UTIL MAXNAME parameter UTIL	access VAG use by access method DAMI
PREFORM parameter UTIL	use by access method DAMI used to create a sequential data set,
SKIP parameter UTIL	coding example DAG
STOPAFT parameter UTIL	with format-U records DAG
STRTAFT parameter UTIL	with indexed sequential data set DAC
TOTCONV parameter UTIL	with simple buffering DAG
TYPORG parameter UTIL	PUTIX macro VAG
punch, card DAMI punching	format VAMI storing an index record
data set UTIL	summary VAMI
partitioned data set directory UTIL	PUTX macro
sequential data set	description DAG, DAMI
examples UTIL	device independence DAG
punching a data set UTIL	output mode DAMI
punching edited data set UTIL	relationship with TRUNC macro DAMI
punching selected members partitioned data set UTIL	specified in DCB macro QISAM DAMI
punching selected records UTIL	QSAM DAMI
punching the job stream SYSG	UPDAT mode DAG
punctuation, in notation convention VAG	update mode DAMI
PURGE macro	updating a sequential data set DAG
adding to macro library SDA	use by access method DAMI
definition SDA	when sharing a data set DAG
parameter list SDA return codes SDA	with format-U records DAG
specification SDA	with simple buffering DAG PVT (ISMF profile variable table) SDA
PURGE parameter	PVTV (ISMF profile variable table)
in DELETE command AMSI, AMSV	variables) SDA
in EXPORT command AMSI, AMSV	PWREAD protection-mode indicator SDA
in IMPORT command AMSI, AMSV	PWWRITE protection-mode indicator SDA
SCRATCH statement UTIL	
purged I/O restore list See PIRL	
PUT macro VAG	Q
addressed-sequential update	<u> </u>
example VAMI	
data mode (QSAM) DAMI	QISAM CPRT
deferred writes VAG	error conditions VAG
description DAC for	QISAM (queued indexed sequential access
QISAM DAMI	method) data set CPRT
QSAM DAMI	for checkpoint restart CPRT
format VAMI	general description DAMI
keyed-direct insertion example VAMI	I/O errors CPRT
keyed-direct update example VAMI	ISAM data set CPRT
keyed-sequential insertion example VAMI	macro instructions used with DAMI
keyed-sequential update example VAMI	symbolic field names in DCB DAMI with ENQ CPRT
loading a relative record data	QISAM data set
set VAMI	See also ISAM
locate mode DAG	EODAD routine CUST
QISAM DAMI	scan mode_DAG
QSAM DAMI	sharing DAG
marking records inactive example VAMI	SYNAD routine CUST using common buffer pool DAG
move mode	QSAM CPRT
QISAM DAMI	QSAM (queued sequential access
QSAM DAMI	method) GI, SYSG
processing mode DAG	See also queued access technique
recording RBAs when loading example VAMI	CHKPT JCL parameter CPRT
relationship with	creating a BDAM data set DAG data set CPRT
PRTOV macro DAMI	defaulting buffer number CUST, SDA
SYNADAF macro DAMI	end-of-volume CPRT
TRUNC macro DAMI	for checkpoint restart CPRT
skip-sequential insertion	general description DAMI
example VAMI	I/O errors CPRT
specified in DCB macro	macro instructions used with DAMI
QISAM DAMI QSAM DAMI	multivolume CPRT parallel input processing DAG

performance improvement DAG restriction with spanned records DAG spanned variable-length records DAG symbolic field names in DCB DAMI SYSIN/SYSOUT data sets DAG to update a directory DAG to update a member DAG user labels CUST user totaling CU CUST VIO data set CPRT when sharing a data set DAG with card punch DAG with printer DAG qualified name CAG qualified name, data set VAG qualified names CAG **QUANTITY** parameter CREATE statement UTIL REPEAT statement UTIL queue area, specifying system SYSG queue, input work CPRT queued access method defined DAG queued access technique G See also QISAM and QSAM buffer control DAG defined DAG introduced DAG processing modes See data mode processing queued indexed sequential access method See QISAM queued sequential access method See QSAM quotation marks used with data set names IUG

R

R operand (TRKCALC macro) SDA parameter NAME statement UTIL R/M trace facility VAG adding trace points VAG ECODE subparameter VAG ending VAG function VAG HOOK subparameter VAG KEY subparameter VAG VAG PARM1 subparameter VAG PARM2 subparameter VAG VAG VAG printing starting R/M trace function See R/M trace facility RACF ANSI standard labels accessibility TAPE creating a volume label TAPE opening an input data set TAPE opening an output data set TAPE processing on the new volume TAPE protection with existing TAPE label verification of first record CUST data set profiles AMSI how to protect tape volumes under TAPE IBM standard labels checking the next volume TAPE creating a volume label TAPE

end of volume on output TAPE opening an input data set TAPE opening an output data set TAPE TAPE password checking TAPE processing on new volumes TAPE protection and data set name on existing label TAPE verification of first record CUST writing data set header labels TAPE installation exit DAG multiple volumes protected by nonstandard labels opening an output data set processing tapes with CUST verification of first record CUST protecting VTOCs and VTOC indexes SDA DAG protection renaming a data set SDA scratching a data set SDA tape volumes defined to TAPE unlabeled tape, verification of first record CUST user data set security CPRT with volume label editor routines CUST RACF (Resource Access Control Facility) alter-level authorization PG always call GI authorization checking data set profiles GI description discrete profiles ERASE option CAG erasing residual data generic profiles CAG, GI, PG OS CVOL facility CAG protected data sets password protection CAG protecting ISMF function protection GI for data set names PG for integrated catalog facility catalog PG integrated catalog facility catalog and associated entries PG VSAM and non-VSAM data sets PG VTOC index PG protection and integrity VAG required level for Data Facility Product GI, PG required product level IUG requirement for interactive storage management facility GI tape data set protection RACF protection IEHMOVE program UTIL RACF 1.7 TAPE range of records, prestaging VAG RANGE parameter UTIL FD statement RBA (relative byte address)
JRNAD parameter list VAG retrieving records directly VAG used to locate a buffer pool VAG RBA field in physical error message VAMI RBA parameter in FIELDS parameter VAMI RBA values CNVTAD macro VAMI

RCK subparameter VAG	device independence DAG execute form DAMI
RD (card reader) DAG RD parameter	for BDAM DAMI
described CPRT	BISAM DAMI
for automatic restart CPRT	BPAM DAMI
how to code CPRT	BSAM DAMI
suppressing action of CHKPT	in SYNAD routine CUST
macro CPRT	list form DAMI
RDBACK operand (OPEN macro) DAMI	relationship to
label exit routine CUST	BFTEK operand DAMI
opening magnetic tape volume DAG	BUFL operand DAMI
restriction for variable-length	CHECK macro DAMI
records DAG	EODAD operand DAMI
restriction with SYSIN/SYSOUT data	FIND macro DAMI
sets DAG	FREEDBUF macro DAMI
RDBACK parameter	KEYLEN operand DAMI
explained TAPE	LIMCT operand DAMI
restriction with data	MACRF operand DAMI
conversion TAPE	NCP operand DAMI
with ANSI standard labels TAPE with IBM standard labels TAPE	OPTCD operand DAMI POINT macro DAMI
with no labels TAPE	RELEX macro DAMI
with nonstandard labels CUST	WAIT macro DAMI
RDF (record definition field) VAG	WRITE macro DAMI
examples VAG	restriction in EODAD routine CUST
format VAG	specified in DCB macro
structure VAG	BDAM DAMI
nonspanned records VAG	BISAM DAMI
spanned records VAG	BPAM DAMI
RDJFCB	BSAM DAMI
retrieving allocation	standard form
information SDA	BDAM DAMI
RDJFCB macro	BISAM DAMI
allocation retrieval area	BPAM DAMI
format SDA allocation retrieval list	BSAM (read direct data set) DAMI
format SDA	BSAM (read sequential data set) DAMI
coding example SDA	to enter EODAD routine CUST
common coding errors SDA	to update existing records DAG
description SDA	updating a partitioned data set DAG
exit list entry for	updating a sequential data set DAG
type '07' SDA	use by access method DAMI
type '13' SDA	
involving DEO at James to CDA	when sharing a data set DAG
invoking DEQ at demount SDA	with basic access method DAG
retrieving allocation information	with basic access method DAG with format-U records DAG
retrieving allocation information coding example SDA	with basic access method DAG with format-U records DAG with KU (key, update), in coding
retrieving allocation information coding example SDA return codes SDA	with basic access method DAG with format-U records DAG with KU (key, update), in coding example DAG
retrieving allocation information coding example SDA return codes SDA security SDA	with basic access method DAG with format-U records DAG with KU (key, update), in coding example DAG read-only attribute, assignment LEL
retrieving allocation information coding example SDA return codes SDA security SDA specification SDA	with basic access method DAG with format-U records DAG with KU (key, update), in coding example DAG read-only attribute, assignment LEL reader, restart CPRT
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retrieving allocation information coding example SDA return codes SDA security SDA specification SDA use by authorized programs SDA with MSS virtual volumes SDA RDR parameter SYSG	with basic access method DAG with format-U records DAG with KU (key, update), in coding example DAG read-only attribute, assignment LEL reader, restart CPRT reading
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DELETE line operator IUG RELEASE line operator or command IUG recovery and backup procedures VAG of catalog entries PG of master catalog PG	RELATE parameter in DEFINE command ALIAS AMSI, AMSV ALTERNATEINDEX AMSI, AMSV related

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UPDATE parameter	written exit routines VAG
CHANGE statement UTIL	user buffering VAMI
in ALTER command AMSI, AMSV in DEFINE command	user catalog CAG, DAG, PG defining AMSI
PATH AMSI, AMSV	disconnecting AMSI, AMSV
restrictions UTIL	identification
UPDATEPW parameter	direct allocation AMSI, AMSV
in ALTER command AMSI, AMSV	dynamic allocation AMSI, AMSV
NULLIFY AMSI, AMSV	identifying CAG
in DEFINE command	user data set
ALTERNATEINDEX AMSI, AMSV CLUSTER AMSI, AMSV	security RACF CPRT
PAGESPACE AMSI, AMSV	user errors CPRT
PATH AMSI, AMSV	user exit routine
USERCATALOG AMSI, AMSV	See exit routine
updating a backup catalog CAG	user generated exit routines VAG
updating a partitioned data set CPRT	user header label (UHL) CUST
updating data set libraries UTIL updating partitioned data set	user I/O routines AMSI, AMSV
directory DAMI	user label exit routine description CUST
updating records	exit list entry CUST
See also storing a record	restriction for data sets on volumes
addressed-sequential VAMI	without standard labels CUST
example VAMI	restriction for SYSOUT data
keyed-direct VAMI	sets CUST
keyed-sequential VAMI updating secondary space data	with read backward CUST user labels UTIL
in OPEN installation exit CUST, SDA	ANSI standard
example CUST, SDA	format of TAPE
upgrade	location on volume TAPE
alternate index with shared	processing of TAPE
resources VAG	writing TAPE
index VAG	IBM standard
set VAG UPGRADE attribute VAG	component support of TAPE
UPGRADE parameter	deferred processing of TAPE format of TAPE
in ALTER command AMSI, AMSV	location on volume TAPE
in DEFINE command	processing requirements TAPE
ALTERNATEINDEX AMSI, AMSV	processing CUST, UTIL
upgrade set	as data CUST
status following request that fails VAMI	as data set descriptors CUST, UTIL
upper case, in notation convention VAMI	treated as data UTIL
upward reference, definition LEL	user repositioning routine CPRT
USAR (user-security-authorization	user totaling exit routine
record) CUST	description CUST
use of list, execute, generate forms VAMI	exit list entry CUST how specified CUST
USE parameter SYSG	image area address CUST
USED PDS BYTES field in formatted VTOC	relationship with end-of-volume
listing UTIL	exit CUST
user	restricted to BSAM, QSAM CUST
access to VSAM shared information VAG	save area CUST totaling area CUST
buffering VAG	variable-length and spanned
catalog	records CUST
JCL VAG	user trailer label (UTL) CUST
considerations with CBUF	user-information parameter
processing VAG	END statement UTIL
data in partitioned data set directory	JOB statement UTIL user-security-authorization record
BLDL macro DAMI	See USAR
STOW macro DAMI	user-security-verification routine
label exit	See USVR
BSAM DAMI	user-specified
list format DAMI	input LEL
QSAM DAMI of EXAMINE command VAG	storage LEL user-specified pictures UTIL
processing VAG	example UTIL
program sequential load VAG	user-written exit routine, example CUST
totaling exit	user-written library LEL
BSAM DAMI	user-written routines
list format DAMI	abend routines SYSG

exit routines SYSG how to add general information SYSG using the DATASET macro SYSG Using the SYCTABLE macro SYSG USERCATALOD parameters in DELETE command AMSI, AMSV in LISTCAT command AMSI, AMSV USERCATALOG subcommand in DEFINE command AMSI, AMSV USERCATALOG subcommand in DEFINE command AMSI, AMSV USERSATA parameter in REPRO command AMSI, AMSV USERSATA parameter SYSG USERSKC parameter SYSG U
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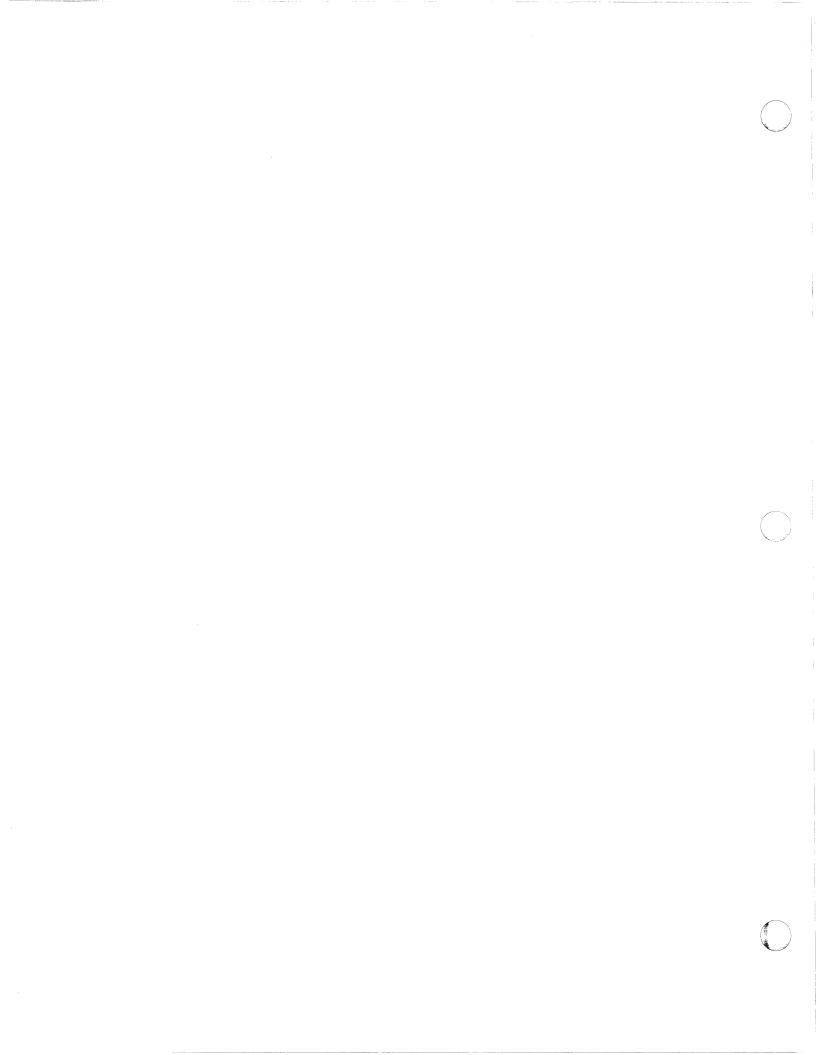
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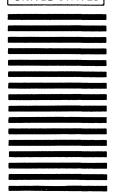


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